

## SUBMITTED BY: Pranay Mayal, B2 (NON HONS.)

### Lab Exercise 5– Terraform Variables with Command Line Arguments

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Objective: Learn how to pass values to Terraform variables using command line arguments.

Prerequisites:

- Terraform installed on your machine.
- Basic knowledge of Terraform variables.

#### Step 1 Create main.tf

```
provider "aws" {  
  region = "us-west-2"  
}  
  
resource "aws_instance" "example" {  
  ami = "ami-01e82af4e524a0aa3"  
  instance_type = "t2.micro"  
}
```

#### Step 2 Create variable.tf

```
variable "region" {  
  description = "AWS region"  
  default    = "us-west-2"  
}  
  
variable "ami" {  
  description = "AMI ID"  
  default    = "ami-01e82af4e524a0aa3"  
}  
  
variable "instance_type" {  
  description = "EC2 Instance Type"  
  default    = "t2.micro"  
}
```

#### Step 3

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

#### Step 4

```
PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFS\aws-terraform-demo> terraform apply -var 'region=us-east-1' -var 'ami=ami-0e731c8a588258d0d' -var 'instance_type=t2.micro'
```

#### Step 5

```
Plan: 1 to add, 0 to change, 0 to destroy.
```

```
Do you want to perform these actions?
```

```
Terraform will perform the actions described above.
```

```
Only 'yes' will be accepted to approve.
```

```
Enter a value: yes
```

```
aws_instance.example: Creating...
```

```
aws_instance.example: Still creating... [10s elapsed]
```

```
aws_instance.example: Still creating... [20s elapsed]
```

Step 6

```
PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFS\aws-terraform-demo> terraform destr  
aws_instance.example: Refreshing state... [id=i-04610e52c6cedab3e]
```

```
No changes. No objects need to be destroyed.
```

```
Either you have not created any objects yet or the existing objects were already dele  
Terraform.
```

```
Destroy complete! Resources: 0 destroyed.
```